BRETT WEILAND

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Skills and Interests

- Programming in C, C++, assembly (primarily AVR and amd64)
- Scripting and automation in Bash and Python
- Reverse engineering and exploit development
- In-depth understanding of Linux, worked with distros varying from Debian to Gentoo

Education

- **Johnson County Community College**
  - Associate of Science General Studies
- **Missouri University of Science and Technology**
  - 3.418 Cumulative GPA
  - Junior Year
  - Studying for Bachelors in Computer Engineering and Electrical Engineering

Work Experience

- **Burns & McDonnell Internship**
  - November 2019 - October 2020
  - Network Integration and Automation department
  - Worked with servers running Linux, Windows, and VMware ESXI
  - Hands-on experience configuring and installing networking equipment of brands such as Cisco, Alcatel-Lucent, and Nokia
- **Missouri S&T IT - Apps Anywhere Packaging**
  - Summer 2024
  - Packaged and tested applications virtualized with Numecent Cloudpaging
  - Wrote scripts to handle issues with dynamic libraries and automate installations

Projects and Hobbies

- **x86-64 Operating System - https://git.bpcspace.com/indigoos.git/tree/src**
  - Building from ground up, including real-mode bootloader for BIOS
  - Boots multi-core, all code is tested SMP safe
- **Binary exploitation - https://blog.bpcspace.com/**
  - Experience in shellcode, ROP attacks, Glibc dynamic linkage and heap exploits
  - CTFs and challenges such as those at https://ropemporium.com/ and https://pwnable.tw
- **Wristwatch - https://git.bpcspace.com/avr-wristwatch.git/tree/src**
  - Features 128x32 monochrome OLED display
  - Working on features such as setting alarms, displaying video
  - Programmed for AVR without Arduino libraries; info retrieved from ATmega family datasheets

Tools Used

GCC	NASM	GDB
Ghidra	Pwnlib	Python
QEMU	ESXI	Git
AVRDUDE	Bash	Wireshark